

CONTROL WIRING SHALL BE NO. 12 AWG., 600V, TYPE 'SIS' GRAY SWITCHBOARD WIRE, STRANDED COPPER.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL WIRING EXTENDING FROM DEVICE ENCLOSURES.

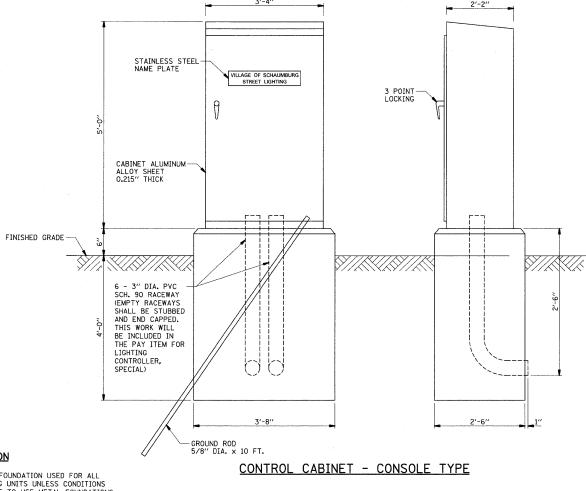
ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL 'ENCLOSED INDUSTRIAL CONTROL PANEL'.

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. FURNISH THE APPROVED COPY OF 'CONTROL CABINET WIRING DIAGRAM'.

CONTROLLER CABINET PAINTING NOTE:

THE CABINET SHALL BE PRIMED AND PAINTED GREEN. A SAMPLE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE COST OF PAINTING THE CABINET SHALL BE INCIDENTAL TO THE COSTS OF MATERIAL AND INSTALLATION OF STREET LIGHTING CONTROLLER.



NOTES FOR METAL FOUNDATION

- METAL FOUNDATION SHALL BE THE FOUNDATION USED FOR ALL LIGHTING AND DECORATIVE LIGHTING UNITS UNLESS CONDITIONS IN THE FIELD MAKES IT IMPOSSIBLE TO USE METAL FOUNDATIONS, THEN AN OFFSET FOUNDATION SHALL BE USED.
- 2. FINISH: HOT DIP GALVANIZED PER ASTM-A123 (LATEST REVISION).
- 3. BASE PLATE TO BE PERPENDICULAR TO SHAFT AXIS AND HOLE CENTERLINE CONCENTRIC TO SHAFT AXIS.
- 4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC AND IN LINE.
- CUT TWO SLOTS PERPENDICULAR TO THE BASEPLATE AND ALIGN PARALLEL TO ROADWAY OR BACK OF CURB.
- 6. PREHEAT, TUMBLEBLAST, HAND GRIND AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
- 7. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
- 8. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

BASE PLATE: ASTM A36-(LATEST REVISION) STRUCTURAL STEEL (CONFORM TO AASHTO TECH. BUL. *270)

SHAFT: ASTM A252-(LATEST REVISION) GRADE 2, STEEL PIPE PILES
ALTERNATE MATERIAL: ASTM A53-(LATEST REVISION)
TYPE E OR S, GRADE 8, STEEL PIPE OR ASTM A530-(LATEST REVISION) GRADE 8, STRUCTURAL STEEL TUBING.

HELIX: ASTM A635-(LATEST REVISION) HOT ROLLED STEEL.

PILOT POINT: HOT ROLLED STEEL

ASTM A575 (LATEST REVISION) STEEL BAR

BOLTS: CARRIAGE BOLTS PER ANSI B-18.2.1, SAE J429 GRADE-5.

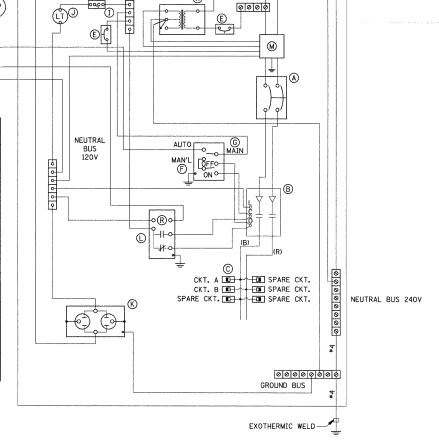
- 9. BOLT CLEARANCE SLOTS IN SHAFT UNDER BASEPLATE.
- 10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.
- 11. CORNERS OF BASEPLATE SHALL BE ROUNDED.
- 12. WELDS TO WITHSTAND A MINIMUM OF 10,000 FT. LBS. OF TORQUE APPLIED ABOUT THE VERTICAL AXIS.

POLE FOUNDATION METAL

-ALL RADIAL SECTIONS

HELIX MUST BE FORMED BY MATCHING METAL DIE (SIDE VIEW OF TRUE HELICAL FORM)

DEVICE SCHEDULE									
ITEM	QUANT.	DESCRIPTION							
A	1	100 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGEABLE TRIP, BOLT ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 600V							
B	1	100 A., ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTACTOR, 2-POLE, 600 V. WITH 120 V. COIL							
©	6	240/480 V. 1 PHASE PANEL BOARD WITH 100 A. COPPER MAINS SINGLE POLE, 20 A., 277 V. BOLT ON BRANCH CIRCUIT BREAKERS INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277							
(D)	1	PHOTO-ELECTRIC CELL, 120 V, MOUNT UNDER LIP OF CONTROLLER CABINET							
Ē	2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 A., 277 V. BOLT ON TYPE. INTERCEPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277							
Ð	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 A., 240 V.							
(3)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 A., 240 V. SPEC. GRADE							
\oplus	1	240/120V. STEP DOWN CONTROL TRANSFORMER 1500 VA RATED							
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN)							
(j)	1	60 WATT LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX							
ĸ	1	120 VOLT, 15 A. GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER							
(L)	1	POWER RELAY WITH CONTACTS RATED FOR CONTACTOR INRUSH CURRENT - 120 V COIL							
M	1	SURGE ARRESTOR, 5 WIRE EDCO "4803" OR EQUAL							



PANEL WIRING DIAGRAM

-(B) 240/480V, 1 PHASE, -(R) 3 WIRE, 60 HZ SERVICE -(W)

LIGHTING CONTROLLER WIRING DIAGRAM

MOUNTED UNDER LIP OF CONTROLLER CABINET

FILE NAME =	USER NAME = Jat	DESIGNED - SJC	REVISED -		WRIGHT BOULEVARD	F.A.U. RTF.	SECTION	COUNTY	TOTAL	HEET
J:\2215\cad\sheets\2215_Light_Det_2.dgn	PLOT SCALE = 1.0000 '/ IN.	DRAWN - CDC CHECKED - DNM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS	1351	06-00090-00-PV	СООК	137	102
	PLOT DATE = 10/15/2009	DATE - 10-16-09	REVISED -		SHEET NO. 2 OF 3 SHEETS	FED. ROAL	D DIST. NO. 1 ILLINOIS FED. /	CONTRAC AID PROJECT ARA		